



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

Course Outline Part A

School of Health Sciences
Program: Medical Radiology
Option:

MRAD 1104
Radiographic Anatomy and Physiology

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|-------------|---|--------------|----|-------------|-----|
| Hours/Week: | 3 | Total Hours: | 48 | Term/Level: | 1 |
| Lecture: | 1 | Total Weeks: | 16 | Credits: | 3.5 |
| Lab: | 2 | | | | |
| Other: | | | | | |

Prerequisites

MRAD 1104 is a Prerequisite for:

| Course No. | Course Name | Course No. | Course Name |
|------------|------------------------------|------------|-------------|
| BHSC 1113 | Basic Anatomy and Physiology | | |

Course Goal(s)

To provide the student with an in-depth understanding of the skeleton and basic structures of the abdomen and thorax. Emphasis is placed on radiography, nomenclature, surface anatomy, specific bony structures, articulations and radiographic appearance of structures.

Course Description

During Level I of this course the lecture and laboratory material will cover the entire skeleton with the exception of the skull and the basic structures of the chest and abdomen. Emphasis both in lecture and lab will be placed on: application to radiography, nomenclature, surface anatomy, specific bony structures, articulations and radiographic appearance of structures.

Evaluation

| | |
|---------------|------------|
| Mid-Term Exam | |
| – Lecture | 25% |
| – Lab | 25% |
| Final Exam | |
| – Lecture | 25% |
| – Lab | 25% |
| TOTAL | <hr/> 100% |

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| NOTE: THE PASS MARK FOR THIS COURSE IS 60%. |
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Course Outcomes and Sub-Outcomes

Upon successful completion of this course, the student will be able to:

1. Describe the structure, function and relative positions of all the bones (except the skull) which comprise the human skeleton.
2. Describe the structure, function and relative positions of all the contents of the chest and abdominal cavities.
3. Locate all bony and non-bony structures using surface anatomy.
4. Evaluate radiographs for variations in organ locations based on *body type* and *position*.
5. Identify on radiographs all parts of the bony skeleton (except the skull).
6. Identify on radiographs selected structures within the abdomen and thorax.

Course Record

Developed by: _____ Date: _____
Instructor Name and Department (signature)

Revised by: _____ Date: _____
Instructor Name and Department (signature)

Approved by: _____ Start Date: _____
Associate Dean / Program Head (signature)



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Health Sciences
Program: Medical Radiology
Option:

Course Outline **Part B**

MRAD 1104
Radiographic Anatomy and Physiology

Effective Date

January, 1997

Instructor(s)

Mary Filippelli

Office No.: SW3-4084
Office Hrs.: As Posted

Phone: 8743

Text(s) and Equipment

Required:

1. Principles of Anatomy and Physiology, Tortora and Anagnostakos.
2. Mosby's Pocket Dictionary of Medicine, Nursing and Allied Health.
3. C.A.M.R.T. Curriculum Guide for Radiography Programs.
4. The Anatomy Coloring Book, Kapit and Elson.
5. Radiographic Skeletal Anatomy, Johnson and Kennedy.
6. Radiographic Anatomy and Physiology, A. McMillen, 1991.

Recommended:

(as listed for C.A.M.R.T. exam validation)

1. Basic Physiology and Anatomy, Chaffee and Lytle.
2. Atlas of Human Cross-Sectional Anatomy, Cahill and Orland.

Course Notes (Policies and Procedures)

Assignment Details



BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

School of Health Sciences
Program: Medical Radiology
Option:

Schedule

MRAD 1104
Radiographic Anatomy and Physiology

| Week of/ Number | | Material Covered | |
|--------------------|---------|--------------------------------------|---|
| | | Lecture | Lab |
| 1 | Jan. 6 | Introduction to bodily habitus | Bodily habitus |
| 2 | Jan. 13 | Chest | Chest |
| 3 | Jan. 20 | Abdomen | General abdomen |
| 4 | Jan. 27 | Finger/thumb/hand/wrist | Finger/thumb/hand/wrist |
| 5 | Feb. 3 | Forearm/elbow/humerus | Forearm/elbow/humerus |
| 6 | Feb. 10 | Clavicle/scapula/shoulder | Clavicle/scapula/shoulder |
| 7 | Feb. 17 | Foot/ankle | Foot/ankle |
| 8 | Feb. 24 | Tibia/fibula/knee | Tibia/fibula/knee |
| 9 | Mar. 3 | MID-TERM | QUIZ |
| | Mar. 10 | Spring Break | |
| 11 | Mar. 17 | Hip/femur/pelvis | Hip/femur/pelvis |
| 12 | Mar. 24 | Cervical and thoracic spine | Cervical and thoracic spine |
| 13 | Mar. 31 | Easter Monday | |
| 14 | Apr. 7 | Sacrum/coccyx/SI joints/lumbar spine | Sacrum/coccyx/SI joints/lumbar spine Ribs/sternum/trachea/pharynx/larynx |
| 15 | Apr. 14 | Ribs/sternum/trachea/pharynx/larynx | FINAL EXAM |
| 16 | Apr. 21 | FINAL EXAM WEEK | |